

## DESIGN AS RESEARCH I READING LIST 2011/12

Robert Stuart-Smoth

This reading list has been given to the library by the course tutor. Please note that the library holds as many items as possible from this list, however if any items are not held in the library's collection, these may be requested via Inter-library loan at the issue desk.

Some items may be shared with other programmes or located in other parts of the library. For location details please consult the online library catalogue.

### Session 1 Introduction

Design as Research

Essential Readings:

Patrik Schumacher & Brett Steele, 'AADRL - Lehre und Forschung' (Design & Research), ARCH+, Dec. 2002, no. 163 **[PRINT OUT ON SHELF]**

Herbert A. Simon, 'The science of design: creating the artificial', in *The Sciences of the Artificial*, 3rd ed., (Cambridge: MIT Press), pp. 111–138

Bruno Latour & Steve Woolgar, 'Intro', in *Laboratory Life: The Construction of Scientific Facts* (Princeton: 1986), pp. 2-17

Recommended readings:

Wayne C. Booth, Gregory G. Colomb, Joseph M. Williams, 'Thinking in Print', 'From Topics to Questions' and 'Communicating Evidence Visually', in *The Craft of Research* (Chicago: 1995), pp. 6-11, 35-45, 175- 98.

Brett Steele, 'Latent Utopias: the Johannes Landesmuseum', *A+U*, No. 388 (Tokyo, January, 2003), pp.3-4

Bruno Latour, 'Rules of Method' and 'Principles', in *Science in Action: How to follow scientists and engineers in society*, (Cambridge, Mass.: 1987), pp. 258-9.

Thomas Kuhn, 'Scientific revolutions', in *The Philosophy of Science*, Richard Boyd, Philip Gasper, and J.D. Trout (eds.) (Cambridge, Mass.: 1991), pp. 139-157. **[ON DRL SPYROPOULOS SHELF]**

Alex Seago and Anthony Dunne, 'New methodologies in Art and Design Research: The Object as Discourse', in *Design Issues: special issue, Design Research*, Vol. 15, No. 2, summer 1999. **[ONLINE JOURNAL]**

Susan Roth, 'The State of Design Research', in *Design Issues: special issue, Design Research*, Vol. 15, No. 2, summer 1999. **[ONLINE JOURNAL]**

## Session 2 Teams

Distributed design systems

Essential Readings:

Tom Verebes, 'Innovation and Practice – Reconstituting the Practice and Product of Architecture', *I Architectural Review*, Australia, issue 90 (Sydney, 2004), pp. 101-105  
**[PRINT OUT ON SHELF]**

Brett Steele, 'Disappearance and Distribution: The architect as machinic interface', *Hunch: the Berlage Institute report No. 6/7* (Rotterdam: 2003), pp. 422-36

Kevin Kelly, 'Hive Mind', *Out of Control: The new biology of machines* (New York: 1995), pp. 7-36 **[ON DRL SPYROPOULOS SHELF]**

Recommended Readings:

Steven Johnson, 'Bitmapping', *Interface Culture* (New York, 1997), pp. 11-41

Michael Speaks, 'Design Intelligence', in *Latent Utopias: Experiments within Contemporary Architecture* (Graz, 2002), pp.73-76.

'Team 10 Primer 1953-62', Alison Smithson (ed.), *Architectural Design* (December, 1962), pp. 559-602

Ben van Berkel & Carolyn Bos, 'The new concept of the architect', in *Move*, vol. 1 *Imagination* (Rosbeek, 1999), pp. 27-33

## Session 3 Processes

Machinic design operations

Essential Readings:

Peter Eisenman, 'Notes Toward a Conceptual Architecture', in *Casabella* (Dec. 1971), pp. 49-57 **[PHOTOCOPY ON SHELF]**

Lars Spuybroek, *Machining Architecture* (London, 2004), pp. 6-13

Greg Lynn, 'Architectural Curvilinearity: The Folded, the Pliant and the Supple', in *Folding in Architecture*, *AD*, (London, 1992, re-printed in 2004), pp. 24-31

Recommended Readings:

Sol Lewitt, 'Sentences on conceptual art', *Critical Writings* (Rome: 1994), pp. 88-99  
Sol Lewitt, 'Paragraphs on conceptual art', *Artforum*, vol. 5, n.10, June 1967  
**BOTH IN 'Sol LeWitt critical texts' ON THE DESIGN AS RESEARCH I SHELF**

Thomas P Hughes, 'The Evolution of Large Technological Systems', in Wiebe E. Bijker, Thomas P. Hughes, and Trevor Pinch, eds., *The Social Construction of Technological Systems: New Directions in the Sociology and History of Technology* (Cambridge, Mass.: MIT Press, 1987), pp. 51-82.

Langdon Winner, 1980 "Do Artifacts Have Politics?" in *Daedalus*, Vol. 109, No. 1, Winter 1980. Reprinted in *The Social Shaping of Technology*, edited by Donald McKenzie and Judy Wajcman (London: Open University Press, 1985; second edition 1999; also reprinted in Al Teich, *Technology and the Future*, sixth edition, 1999).

Stan Allen, 'Terminal Velocities: the computer in the design studio', in *Practice: Architecture, technique and representation* (New York: 2000), pp. 145-61

### **Session 4 Diagrams**

Graphic notation, information, & matter

Essential Readings:

Gilles Deleuze & Felix Guattari, *A Thousand Plateaus: Capitalism & Schizophrenia*, transl. & forward by Brian Massumi (London: The Athlone Press, 1987) [orig. *Mille Plateaux*, 1980] p.343-7 (machine & assemblage) p. 140-8 (the abstract machine)

R.E. Somol, 'Dummy Text, or The Diagrammatic Basis of Contemporary Architecture, in *Diagram Diaries*, (London: Thames & Hudson), 1999, pp. 7-25 **[IN AA THESES]**

Recommended Readings:

Any No. 23: *Diagram Work*, Guest Editors Ben van Berkel & Caroline Bos (New York: 1998)

Robin Evans, 'Translations from drawing to building', in *Translations from Drawing to Building* (London: 1997), pp. 153-93

Ligia Velloso Nobre, 'Diagrams and Diagrammatic Practice: On design process in the AADRL', Masters Dissertation (Unpublished), 1999

Andrew Benjamin, 'Lines of Work: On diagrams and drawing', *Architectural Philosophy* (London: 2000), pp. 143-55

Ben van Berkel & Carolyn Bos, 'Diagrams', in *Move vol 2 Techniques* (Rosbeek, 1992), pp. 19-25.

## Session 5 Fields

Nomadic organisational strategies

Essential readings:

Stan Allen, 'From Object to Field', AD, **Architecture After Geometry** (London: 1995), pp. 24-31

Stan Allen, 'Field Conditions', *Points + Lines: Diagrams and projects for the city* (New York: 1999), pp. 92-103

Jesse Reiser, 'Sold-State Architecture', in Andrew Benjamin, ed., *Reiser + Umemoto Recent Projects* (London: 1998), pp. 48-52.

Recommended Readings:

Greg Lynn, 'Form and Field', *Anywise* (New York: 1996), pp. 92-99.

Sanford Kwinter, 'La Citta Nuova: Modernity and Continuity', in *Zone 1 / 2* (New York, 1986), pp. 88-89.

John Rajchman, 'What is abstraction', *Constructions* (New York: 1998), pp. 54-75

## Session 6 Time

Form as dynamic effect

Essential Readings:

Henri Bergson, 'Introduction', *Matter and Memory*, transl. N.M. Paul and W.S. Palmer (New York: Zone Books, 1988), pp. 9-16 [orig. publ. 1908]

Sanford Kwinter, 'Soft Systems', *Culture Lab 1*, Brian Boignon (ed.), (New York: 1996), pp. 207-228

Greg Lynn, 'Animate Form', *Animate Form* (New York: 1999), pp. 8-43

Recommended Readings:

Keith Ansell Pearson, 'The Difference of Bergson: Duration and creative evolution', *Germinal Life* (London: 1999), pp. 20-76.

Henri Bergson, 'The Idea of Duration', *Henri Bergson: Key Writings* (London: Athlone Press, 2002), pp. 49-77.

Gilles Deleuze, 'Intuition as Method', in Gilles Deleuze, *Bergsonism*, transl. by Hugh Tomlinson and Barbara Habberjam (New York: Zone Books, 1991), pp. 13-35.

## Session 7 Topology

### Transformational Events

#### Essential Readings:

Mark Burry, 'Between Surface and Substance', *AD Surface Consciousness* (John Wiley & Sons: 2003) pp. 8-20 **[ON DRL SPYROPOULOS SHELF]**

Sanford Kwinter, 'Landscapes of Change: Boccioni's Stati d'animo as a General Theory of Models', *Assemblage* n.19 1992, pp.52-65 **[PRINT OUT ON SHELF + AVAILABLE FROM JSTOR]**

Greg Lynn, 'Multiplicitous and Inorganic Bodies', *Assemblage* 19, Dec. 1992:a.o. **[PRINT OUT ON SHELF + AVAILABLE FROM JSTOR]**

#### Recommended Readings:

Jeffrey Kipnis, 'Towards a new architecture', in *Architecture Design Profile* No. 102 *Folding in Architecture*, Greg Lynn (ed.), (London: 1993), pp. 40-49.

David Ruy, 'Robust Striations', 'Excerpts' and 'Discussions', in *Tokyo Bay Experiment* Reiser + Umemoto Studio (New York: 1997), pp. 11-19, 29-49.

John Rajchman, 'Multiplicity', *The Deleuze Connections* (Cambridge, Mass.: 2000), pp. 50-76

Rene Thom, 'Introduction' and 'Form and structural stability', *Structural Stability and Morphogenesis* (Reading, Mass., 1975), pp. 1-20

D'Arcy Wentworth Thompson, 'On magnitude' in *On Growth and Form: The Complete Revised Edition* (New York: 1992), pp. 22-77.